

September 11, 2013



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety Administration**

East Building, PHH – 30
1200 New Jersey Avenue, Southeast
Washington, D.C. 20590

DOT-SP 11592
(NINTH REVISION)

EXPIRATION DATE: June 30, 2017

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Amtrol Inc.
West Warwick, RI
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the manufacture, mark, sale and use of a non-DOT specification steel water pump system tank that exceeds the prescribed maximum outside diameter and wall stress used for the transportation in commerce of compressed air or nitrogen. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.306(g) in that the water pump system may not be charged to greater than 40 psig, except as specified herein; § 173.306(g)(1) in that the outside diameter of each water pump system may not exceed 24 inches, except as specified herein; and § 173.306(g)(3) in that the maximum wall stress at the prescribed pressure may not exceed 20,000 psi, except as specified herein.

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5. BASIS: This special permit is based on the application of Amtrol Inc. dated April 1, 2013 and additional information dated August 16, 2013, submitted in accordance with § 107.105 and the public proceeding thereon.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Air, compressed	2.2	UN1002	N/A
Compressed gas, n.o.s. (air with up to 15% helium)	2.2	UN1956	N/A
Nitrogen, compressed	2.2	UN1066	N/A
Compressed gas, n.o.s. (nitrogen with up to 5% hydrogen)	2.2	UN1956	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a water pump system tank constructed of ASTM 620 low carbon, aluminum killed, deep-drawn steel in accordance with AMTROL Inc. drawing nos. 147-144 Rev. B or 150-39 Rev. B; or constructed of ASTM A1008 Type DS, modified, cold rolled, aluminum killed drawing steel in accordance with AMTROL Inc. drawing nos. 102-001 Rev. K and 9406C240 Rev. C. Drawings must be on file with the Office of Hazardous Materials Safety Approvals and Permits Division (OHMSAPD). Packagings must be in accordance with § 173.306(g) except as follows:

- (a) § 173.306(g)(1) - Applies except that the outside diameter may not exceed 26 inches.
- (b) § 173.306(g)(3) - For tanks less than or equal to 11 inches in diameter and manufactured in accordance with Drawing #'s 9406C240 Rev. C and 102-001, the stress at the prescribed pressure must not exceed 38,000 psi; otherwise the stress at the prescribed pressure must not exceed 25,000 psi using the formula:
$$S = Pd/2t$$

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Where:

S = wall stress in pounds per square inch;
P = prescribed pressure for the tank of at least 3
times charged pressure at 70°F or 100 psig,
whichever is greater;
d = inside diameter in inches;
t = minimum wall thickness, in inches.

- (c) § 173.306(g)(4) - The burst pressure must be at least 8 times the charge pressure at 70°F.
- (d) § 173.306(g) - Applies except the compressed air may contain up to 15% compressed helium. Tanks less than or equal to 11 inches in diameter and manufactured in accordance with 9406C240 Rev. C and 102-001 Rev. K must not be charged over 70 psig. For tanks manufactured in accordance with drawings 147-144 Rev. B or 150-39 Rev. B the tank must not be charged to over 50 psig.

8. SPECIAL PROVISIONS:

- a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.
- b. A person who is not a holder of this special permit, but receives a package covered by this special permit, may reoffer it for transportation provided no modification or change is made to the package and it is offered for transportation in conformance with this special permit and the HMR.
- c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
- d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by OHMSAPD for a specific manufacturing facility.

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- e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to a DOT representative upon request.
- f. MARKING - Packages are exempt from marking and labeling requirements except that the name of contents must be marked on the outside packaging. In addition, each packaging manufactured under the authority of this special permit must be plainly and durably marked "DOT-SP 11592".
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, and cargo vessel.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this special permit.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

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Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notice of certain hazardous materials incidents, and 171.16 Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: BMOORE/TG